

ABSTRACT OF THE DISCLOSURE

A constant voltage source includes a constant voltage supplying circuit including an operational amplifier for supplying an output voltage to a load and a feedback circuit for feeding back the output voltage to the operational amplifier; a first inductance unit disposed between the constant voltage supplying circuit and the load; and a first bypass capacitor of which one terminal is coupled between the first inductance unit and the load and the other terminal is coupled to a constant voltage unit. The constant voltage source further includes a compensation circuit including a second resistor, a second inductance unit and a second bypass capacitor, one end of each of the second resistor, the second inductance unit and the second bypass capacitor being coupled to each other, wherein the other end of the second resistor is coupled to an end of the first inductance unit near the constant voltage supplying circuit, the other end of the second inductance unit is coupled to a load side end of the first inductance unit and the other end of the second bypass capacitor is coupled to the constant voltage unit.

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